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1	Application No.	Applicant(s)
Notice of Allowability	10/690,843	NATSUME ET AL.
	Examiner	Art Unit
	Bernarr E. Gregory	3662
The MAILING DATE of this communication appears All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate communication is selected and MPEP 1308.	this application. If not included unication will be mailed in due course. THIS
1. A This communication is responsive to the Amendment rece	<u>IVea 29 June 2004</u> .	•
2. ☑ The allowed claim(s) is/are <u>1-17</u> .		
3. The drawings filed on <u>05 February 2004</u> are accepted by t	he Examiner.	•
4. ☑ Acknowledgment is made of a claim for foreign priority us  a) ☑ All b) ☐ Some* c) ☐ None of the:  1. ☑ Contilled conics of the priority decuments boys.	-	or (f).
<ol> <li>Certified copies of the priority documents have</li> <li>Certified copies of the priority documents have</li> </ol>		n No.
3. ☐ Copies of the certified copies of the priority do		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	nitted. Note the attached EXA es reason(s) why the oath or	AMINER'S AMENDMENT or NOTICE OF declaration is deficient.
6. CORRECTED DRAWINGS ( as "replacement sheets") must	st be submitted.	
(a)  including changes required by the Notice of Draftspers	son's Patent Drawing Review	v ( PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		
(b) including changes required by the attached Examiner Paper No./Mail Date	s Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on the header according to 37 CF	ne drawings in the front (not the back) of R 1.121(d).
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>	sit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	ERIAL must be submitted. Note the DLOGICAL MATERIAL.
Attachment(s)	_	
1. Notice of References Cited (PTO-892)	<u> </u>	formal Patent Application (PTO-152)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		ummary (PTO-413), Mail Date
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	08), 7. ☐ Examiner's	Amendment/Comment
Paper No./Mail Date 4.  Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's	Statement of Reasons for Allowance
of Biological Material	9. 🗌 Other	- 7 /
		Bernarr E. Gregory Primary Examiner Art Unit 3662 Tel.: (703) 306-5765

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

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1. The following is an examiner's statement of reasons for allowance:

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed method as set forth in independent claim 1 that is particularly characterized at least by the claimed method steps of "frequency modulating a radar wave signal ... the predetermined constant time" and "mixing the frequency-modulated radar wave signal transmitted from the reference object ... that of the reflection signal" taken together and taken in the overall context of independent claim 1.

Dependent claims 2-6 are allowable for at least the reasons for which claim 1 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed method as set forth in independent claim 7 that is particularly characterized at least by the claimed method steps of "first mixing the frequency-modulated first radar wave signal ..."; "first sweeping the first beat signal ..."; "second frequency-modulating a second radar wave signal ..."; and "second mixing the frequency-modulated second radar wave signal ..." taken together and taken in the overall context of independent claim 7.

Dependent claim 8 is allowable for at least the reasons for which claim 7 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed

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apparatus as set forth in independent claim 9 that is particularly characterized at least by the claimed "frequency-modulating unit ... predetermined constant time" and "sweeping unit configured to ... component of the beat signal" taken together and taken in the overall context of independent claim 9.

Dependent claims 10-14 are allowable for at least the reasons for which claim 9 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed apparatus as set forth in independent claim 15 that is particularly characterized at least by the claimed "first mixing unit configured to ..."; "first sweeping unit ..."; "second frequency-modulating unit ..."; and "second mixing unit ..." taken together and taken in the overall context of independent claim 15.

Dependent claim 16 is allowable for at least the reasons for which claim 15 is allowable.

None of the prior art of record either taken alone or taken in any possible combination would anticipate or would tend to render obvious Applicants' claimed computer program product as set forth in independent claim 17 that is particularly characterized at least by the claimed "means for causing the signal processing unit to control ..."; "means for causing the signal processing unit to sweep the beat signal ..."; and "means for causing the signal processing unit to obtain the prediction distance based on ..." taken together and taken in the overall context of independent claim 17.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Bernarr E. Gregory whose telephone number is (703) 306-5765. The examiner can normally be reached on weekdays from 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas H. Tarcza, can be reached on (703) 306-4171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Bernarf E. Gregory

Primary Examiner

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